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NOTICE OF ALLOWANCE AND FEE(S) DUE

30448

7590

04/05/2010

AKERMAN SENTERFITT P.O. BOX 3188 WEST PALM BEACH, FL 33402-3188 EXAMINER

LEUNG, JENNIFER A

ART UNIT PAPER NUMBER

1797 DATE MAILED: 04/05/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/571,221	01/29/2007	Ermanno Filippi	9526-82 (184185)	8993

TITLE OF INVENTION: PSEUDO-ISOTHERMAL CATALYTIC REACTOR

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	07/06/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correcte maintenance fee notifical	ed below or directed oth	ng the Patent, advance on nerwise in Block 1, by (a	rders and notification of na) specifying a new corres	naintenance fees will spondence address; an	be mailed to the current d/or (b) indicating a sepa	correspondence address as arate "FEE ADDRESS" for	
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				(s) Transmittal. This c	ertificate cannot be used f	or domestic mailings of the or any other accompanying nt or formal drawing, must	
30448 AKERMAN SI P.O. BOX 3188 WEST PALM B		3188	I hei State	Certifi reby certify that this I es Postal Service with	cate of Mailing or Trans Gee(s) Transmittal is being sufficient postage for fir		
						(Depositor's name)	
						(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	A	TTORNEY DOCKET NO.	CONFIRMATION NO.	
10/571,221 TITLE OF INVENTION	01/29/2007 : PSEUDO-ISOTHERM	IAL CATALYTIC REAC	Ermanno Filippi CTOR		9526-82 (184185)	8993	
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EXAM	INER	ART UNIT	CLASS-SUBCLASS]			
LEUNG, JE	NNIFER A	1797	422-198000	,			
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A PLEASE NOTE: Unl	ondence address (or Cha 3/122) attached. ication (or "Fee Address 12 or more recent) attach ND RESIDENCE DATA ess an assignee is ident h in 37 CFR 3.11. Comp	"Indication form led. Use of a Customer A TO BE PRINTED ON Tified below, no assignee	2. For printing on the p (1) the names of up to or agents OR, alternativ (2) the name of a single registered attorney or a 2 registered patent attoolisted, no name will be THE PATENT (print or type data will appear on the part of the	3 registered patent a vely, e firm (having as a magent) and the names reprinted. be) atent. If an assignee assignment.	ember a 2	ocument has been filed for	
Please check the appropr	iate assignee category or	categories (will not be pr			1 0	oup entity Government	
4a. The following fee(s) are submitted: ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
**	s SMALL ENTITY statu	us. See 37 CFR 1.27.	b. Applicant is no long				
NOTE: The Issue Fee and interest as shown by the i	d Publication Fee (if req records of the United Sta	uired) will not be accepte ites Patent and Trademark	d from anyone other than the Office.	he applicant; a registe.	red attorney or agent; or th	ne assignee or other party in	
Authorized Signature				Date			
Typed or printed name				Registration No.			
This collection of inform an application. Confident submitting the completed this form and/or suggesti Box 1450. Alexandria, V	ation is required by 37 Ctiality is governed by 35 I application form to the ons for reducing this built is a 2313-1450 Decirio in 22313-1450 Decirio in 2	CFR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the	on is required to obtain or r 1.14. This collection is est depending upon the indive COMPLETED FORMS TO	etain a benefit by the imated to take 12 min idual case. Any comr er, U.S. Patent and Tra D. THIS ADDRESS. S	public which is to file (and utes to complete, including nents on the amount of the demark Office, U.S. Dep END TO: Commissioner	by the USPTO to process) ag gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents P.O. Box 1450.	

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AKERMAN SEN	NTERFITT	LEUNG, JENNIFER A			
P.O. BOX 3188 WEST PALM BEACH, FL 33402-3188			ART UNIT	PAPER NUMBER	
			1797		
			DATE MAILED: 04/05/2010		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 69 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 69 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	lication No. Applicant(s)			
	10/571,221	FILIPPI ET AL.	FILIPPI ET AL.		
Notice of Allowability	Examiner	Art Unit			
	JENNIFER A. LEUNG	3 1797			
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOS or other appropriate co GHTS. This applicatio and MPEP 1308.	ED in this application. If not include mailed in due	ed course. THIS		
1. X This communication is responsive to the amendment filed	on 22 March 2010.				
2. \boxtimes The allowed claim(s) is/are <u>1 and 2</u> .					
3. Acknowledgment is made of a claim for foreign priority unas Acknowledgment is made of a claim for foreign priority unas All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☒ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. ☐ A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be comply including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date	been received. been received in Appl cuments have been received from this communication of this communication of this application of the Submitted. The Application of the Application	ication No relived in this national stage application of the areply complying with the restriction. I EXAMINER'S AMENDMENT or North or declaration is deficient.	quirements		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).					
6. ☐ DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL N	MATERIAL must be submitted.	Note the		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6.	of Informal Patent Application ew Summary (PTO-413), 'No./Mail Date ner's Amendment/Comment ner's Statement of Reasons for Alle	owance		
	/Jennifer A				

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Art Unit: 1797

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on March 22, 2010 has been entered.

Terminal Disclaimer

2. The terminal disclaimer filed on March 22, 2010 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of Application No. 10/566,120 has been reviewed and is accepted. The terminal disclaimer has been recorded.

Accordingly, the provisional rejection of claims 1 and 2 on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-12 of copending Application No. 10/566,120 in view of Vu et al. (US 5,030,789) has been withdrawn.

REASONS FOR ALLOWANCE

3. Claims 1 and 2 are allowed.

The prior art does not disclose or adequately suggest a chemical reactor comprising a substantially cylindrical shell defining a reaction zone in which a catalytic bed and a plurality of heat exchangers are supported, wherein, in particular, <u>all</u> of the heat exchangers are identical, flat, boxed, plate-shaped heat exchangers, each having vertical long sides and short sides arranged within the shell according to the specifically recited configuration (e.g., as illustrated in FIG. 4 of Applicant's disclosure).

Any comments considered necessary by applicant must be submitted no later than the

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Art Unit: 1797

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

* * *

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JENNIFER A. LEUNG whose telephone number is (571) 272-1449. The examiner can normally be reached on 9:30 am - 5:30 pm Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Walter D. Griffin can be reached on (571) 272-1447. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jennifer A. Leung/ Primary Examiner, Art Unit 1797